



Attorney Docket No. 5000.113A
Confirmation No. 1789

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: David B. Slater, Jr.

Serial No. 10/003,331

Filed: October 31, 2001

For: LOW TEMPERATURE FORMATION OF BACKSIDE
OHMIC CONTACTS FOR VERTICAL DEVICES

Group Art Unit: 2818

Examiner: David Vu

December 23, 2003

Commissioner for Patents
Alexandria, VA 22313-1450

REQUEST FOR CORRECTION OF INVENTORSHIP

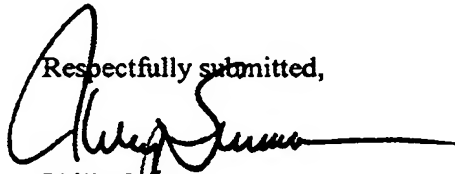
Sir:

This is a request under 35 U.S.C. § 116 and 37 C.F.R. § 1.48 (a)(1) to correct inventorship in a nonprovisional application after the oath or declaration has been filed.

The following items are enclosed:

- (i) a statement from Alexander Suvorov as the omitted inventor being added; 37 C.F.R. § 1.48 (a)(2);
- (ii) an oath or declaration from inventors Slater and Suvorov; 37 C.F.R. § 1.48 (a)(3);
- (iii) the 37 C.F.R. § 1.17(i) processing fee of \$130.00, 37 C.F.R. § 1.48 (a)(4); and
- (iv) the Assignee's statement under 37 C.F.R. § 3.73(b) and the written consent of the assignee, 37 C.F.R. § 1.48 (a)(5).

Respectfully submitted,


Philip Summa
Reg. No. 31,573

021176
Summa & Allan, P.A.
11610 North Community House Road
Suite 200, Ballantyne Corporate Park
Charlotte, North Carolina 28277-2162
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Facsimile: 704-945-6735
\\Server\F\FIRM DOCS\5000\113A\Inventorship\22303.doc

Match and Return

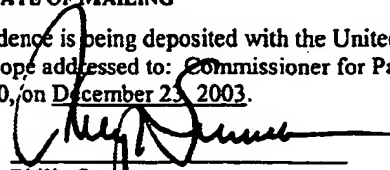
CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on December 23, 2003.

01/06/2004 EAREGAY2 00000033 10003331

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130.00 0P


Philip Summa

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VERTICAL DEVICES

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Alexandria, VA 22313-1450

Statement of Dr. Alexander Suvorov

1. My name is Alexander Suvorov and I reside at 5 Windcourt Place, Durham, North Carolina 27713.
2. I am employed as a scientist at Cree, Inc. in Durham, North Carolina where my areas of concentration comprise doping techniques for silicon carbide, including implantation, diffusion and annealing, and the silicon carbide semiconductor devices that are designed and produced using such techniques.
3. I am a named co-author on a number of scientific publications.
4. I am a named inventor on at least four issued U.S. patents and several pending applications, and I am generally familiar with the patent process, including inventorship.
5. Named inventor David Slater is a co-worker of mine at Cree, Inc.
6. My omission from the originally-named inventorship in this application was an oversight and was made without deceptive intent on my part.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Alexander Suvorov
Alexander V. Suvorov

Date: 11/25/03



STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: David B. Slater, Jr.

Application No./Patent No.: 10/003,331 Filed/Issue Date: October 31, 2001

Entitled: Low Temperature Formation of Backside Ohmic Contacts for Vertical Devices

Cree, Inc., a North Carolina Corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.
The extent (by percentage) of its ownership interest is _____ %
in the patent application/patent identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 011729, Frame 0074, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

December 19, 2003

Date

919-313-5300

Telephone number

Charles M. Swoboda

Typed or printed name

Charles M. Swoboda

Signature

President and CEO

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



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PATENT

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In re: David B. Slater, Jr.

Serial No. 10/003,331

Filed: October 31, 2001

For: LOW TEMPERATURE FORMATION OF
BACKSIDE OHMIC CONTACTS FOR
VERTICAL DEVICES

Group Art Unit: 2818

Examiner: David Vu

Commissioner for Patents
Alexandria, VA 22313-1450

Request for Correction of Inventorship: Consent of Assignee

Sir:

This is part of a request under 35 U.S.C. § 116 and 37 C.F.R. § 1.48 (a)(1) to correct inventorship in a nonprovisional application after the oath or declaration has been filed.

The assignee, Cree, Inc., hereby consents to the correction of inventorship to add Alexander V. Suvorov as a named inventor.

Cree, Inc. is the owner of the entire interest of the patent by assignment and Cree's Statement under 37 C.F.R. § 3.73(b) is being filed concurrently herewith on Form PTO/SB/96.

The undersigned is authorized to act on behalf of assignee Cree, Inc.

Printed Name: Charles M. Swoboda

Signature: Charles M. Swoboda

Title: President and CEO

Date: 12-19-03

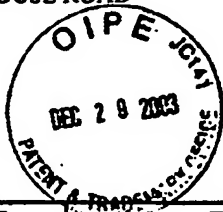
PT B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail Stop ISSUE FEE**
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CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)
 21176 7590 09/29/2003

SUMMA & ALLAN, P.A.
11610 NORTH COMMUNITY HOUSE ROAD
SUITE 200
CHARLOTTE, NC 28277



Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

Philip Summa (Depositor's name)
Philip Summa (Signature)
December 23, 2003 (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/003,331	10/31/2001	David B. Slater JR.	5000.113A	1789

TITLE OF INVENTION: LOW TEMPERATURE FORMATION OF BACKSIDE OHMIC CONTACTS FOR VERTICAL DEVICES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$300	\$1600	12/29/2003

EXAMINER	ART UNIT	CLASS-SUBCLASS
VU, DAVID	2818	438-020000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1. Summa &
 2. Allan, P.A.
 3. _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Cree, Inc.

Durham, North Carolina

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ individual ☒ corporation or other private group entity ☐ government

4a. The following fee(s) are enclosed:

- ☒ Issue Fee
☒ Publication Fee
☒ Advance Order - # of Copies 10

4b. Payment of Fee(s):

- ☒ A check in the amount of the fee(s) is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☒ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number 50-0332 (enclose an extra copy of this form).

Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

(Authorized Signature)

(Date)

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant, a registered attorney or agent, or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

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01 FC:1501 1330.00 OP
 02 FC:1504 300.00 OP
 03 FC:8001 30.00 OP

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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/003,331	10/31/2001	2818	1488	5000.113A	2	33	4

CONFIRMATION NO. 1789

CORRECTED FILING RECEIPT



OC000000012058528

21176
 SUMMA & ALLAN, P.A.
 11610 NORTH COMMUNITY HOUSE ROAD
 SUITE 200
 CHARLOTTE, NC 28277

Date Mailed: 03/09/2004

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).**

Applicant(s)

David B. Slater JR., Raleigh, NC;
 ALEXANDER SUVOROV, DURHAM, NC;

Domestic Priority data as claimed by applicant

This application is a CIP of 09/787,189 03/15/2001

Foreign Applications

If Required, Foreign Filing License Granted: 01/08/2002

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No

Title

LOW TEMPERATURE FORMATION OF BACKSIDE OHMIC CONTACTS FOR VERTICAL DEVICES

Preliminary Class

438

**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

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